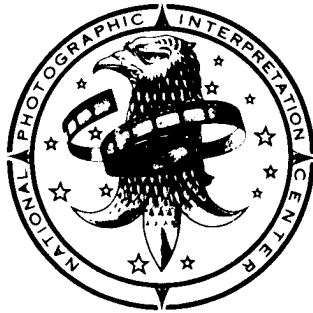


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Summary Report

NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

CONSTRUCTION OF NEW PROBABLE PHASED-ARRAY RADAR AT SARY-SHAGAN R&D RADAR FACILITY 1, USSR (TSR)

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SR-038/78

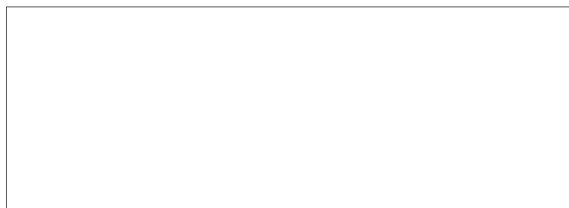
APRIL 1978

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CONSTRUCTION OF NEW PROBABLE PHASED-ARRAY RADAR AT SARY-SHAGAN R&D RADAR FACILITY 1, USSR (TSR)

(TSR) A new probable phased-array radar, northeast of the prototype HEN HOUSE radar at the Sary-Shagan Research and Development (R&D) Radar Facility 1 [REDACTED]

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[REDACTED], was in a late stage of construction when observed [REDACTED]

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[REDACTED] The probable bistatic radar is housed in a single building with two distinct sections, each containing an antenna aperture. The collocated northern and southern antennas will probably function as the receiver and transmitter, respectively, for the new radar. This report updates a previous NPIC Summary Report.*

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(TSR) [REDACTED] paneling had been applied to the entire area surrounding the 21-meter-diameter circular aperture of the larger, northern antenna. Two columns of scaffolding were seen on the ground in front of the northern antenna

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[REDACTED] the scaffolding had been placed over the northern third of the circular aperture. A large mobile crane first seen [REDACTED]

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[REDACTED] was still present in front of the circular aperture.

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(TSR) At the smaller, southern antenna a 10.0-meter-square aperture was first observed in the center of the antenna face [REDACTED] The slant height of the aperture [REDACTED] The distance from the ground to the base of the opening [REDACTED] with a slant distance of 17.0 meters.

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(TSR) A [REDACTED] grid was seen under construction on a platform in front of the southern antenna [REDACTED] Three rows of light-toned squares were observed on the top of the grid. [REDACTED]

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[REDACTED] The grid had been installed in the aperture [REDACTED] and paneling had been applied to the entire area surrounding it. What appeared to be scaffolding was seen protruding from the aperture.

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(TSR) Elsewhere at the facility the power substation was completed [REDACTED]

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(TSR) While no cooling facilities for the new radar have been identified [REDACTED]

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[REDACTED] building under construction behind the prototype HEN HOUSE radar may eventually house cooling towers.

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(TSR) Crates and debris continue to be seen piled in front of the prototype HEN HOUSE radar [REDACTED]

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*NPIC [REDACTED] Circular Aperture for New Probable Phased-Array Radar, Sary-Shagan R&D Radar Facility 1, USSR(S), Aug 77 (TOP SECRET RUFF/[REDACTED])

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